

### Use Dashboard Nodes for Creating UI (Web Apps)

Team ID	PNT2022TMID16091
Project Name	Smart waste management system for metropolitan cities

Step 1: Open Node red and pick and place blocks according to python script flow.

Step2: Make sure necessary blocks are installed in Node Red.

Step 3: After creating the flow click on deploy.

Step 4: Output is displayed in Node-red Debug window.

Step 5: Also, web UI can also be seen by the URL followed by/ui

# Screenshots: NODE – RED FLOW

The screenshot displays the Node-RED web interface with four parallel flows. Each flow starts with an IBM IoT Gateway node, followed by a function node (Distance 1-4), a msg.payload node, and an http node. The debug console on the right shows the output of these flows, including JSON objects and alert messages.

**Flow 1:** IBM IoT Gateway → Distance 1 → msg.payload → http

**Flow 2:** IBM IoT Gateway → Distance 2 → msg.payload → http

**Flow 3:** IBM IoT Gateway → Distance 3 → msg.payload → http

**Flow 4:** IBM IoT Gateway → Distance 4 → msg.payload → http

**Debug Console:**

```
msg.payload : string[36]
"alert :No need to collect right now"

11/12/2022, 11:19:35 AM node: msg.payload
iot-2?type=BIN4Id@BIN4IDevtoTSensorfmsjson :
msg.payload : undefined
undefined

11/12/2022, 11:19:38 AM node: msg.payload
iot-2?type=BIN4Id@BIN4IDevtoTSensorfmsjson :
msg.payload : Object
* { dist: 48, load: 7 }

11/12/2022, 11:19:37 AM node: msg.payload
iot-2?type=BIN4Id@BIN4IDevtoTSensorfmsjson :
msg.payload : number
48

11/12/2022, 11:19:44 AM node: msg.payload
iot-2?type=BIN4Id@BIN4IDevtoTSensorfmsjson :
msg.payload : string[36]
"alert :No need to collect right now"

11/12/2022, 11:19:45 AM node: msg.payload
iot-2?type=BIN4Id@BIN4IDevtoTSensorfmsjson :
msg.payload : undefined
undefined

11/12/2022, 11:19:46 AM node: msg.payload
iot-2?type=BIN4Id@BIN4IDevtoTSensorfmsjson :
msg.payload : Object
* { dist: 18, load: 9 }

11/12/2022, 11:19:47 AM node: msg.payload
iot-2?type=BIN4Id@BIN4IDevtoTSensorfmsjson :
msg.payload : number
18

11/12/2022, 11:19:54 AM node: msg.payload
iot-2?type=BIN4Id@BIN4IDevtoTSensorfmsjson :
msg.payload : string[36]
"alert :No need to collect right now"

11/12/2022, 11:19:55 AM node: msg.payload
iot-2?type=BIN4Id@BIN4IDevtoTSensorfmsjson :
msg.payload : undefined
undefined

11/12/2022, 11:19:56 AM node: msg.payload
iot-2?type=BIN4Id@BIN4IDevtoTSensorfmsjson :
msg.payload : Object
* { dist: 38, load: 13 }

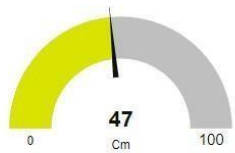
11/12/2022, 11:19:57 AM node: msg.payload
iot-2?type=BIN4Id@BIN4IDevtoTSensorfmsjson :
msg.payload : number
38
```

## NODE – RED UI

≡ control

control

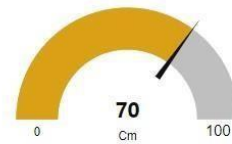
Distance 1



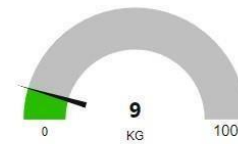
LOAD CELL 1



Distance 2



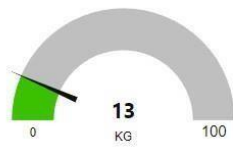
LOAD CELL 2



Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4

